1894

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Fig 3

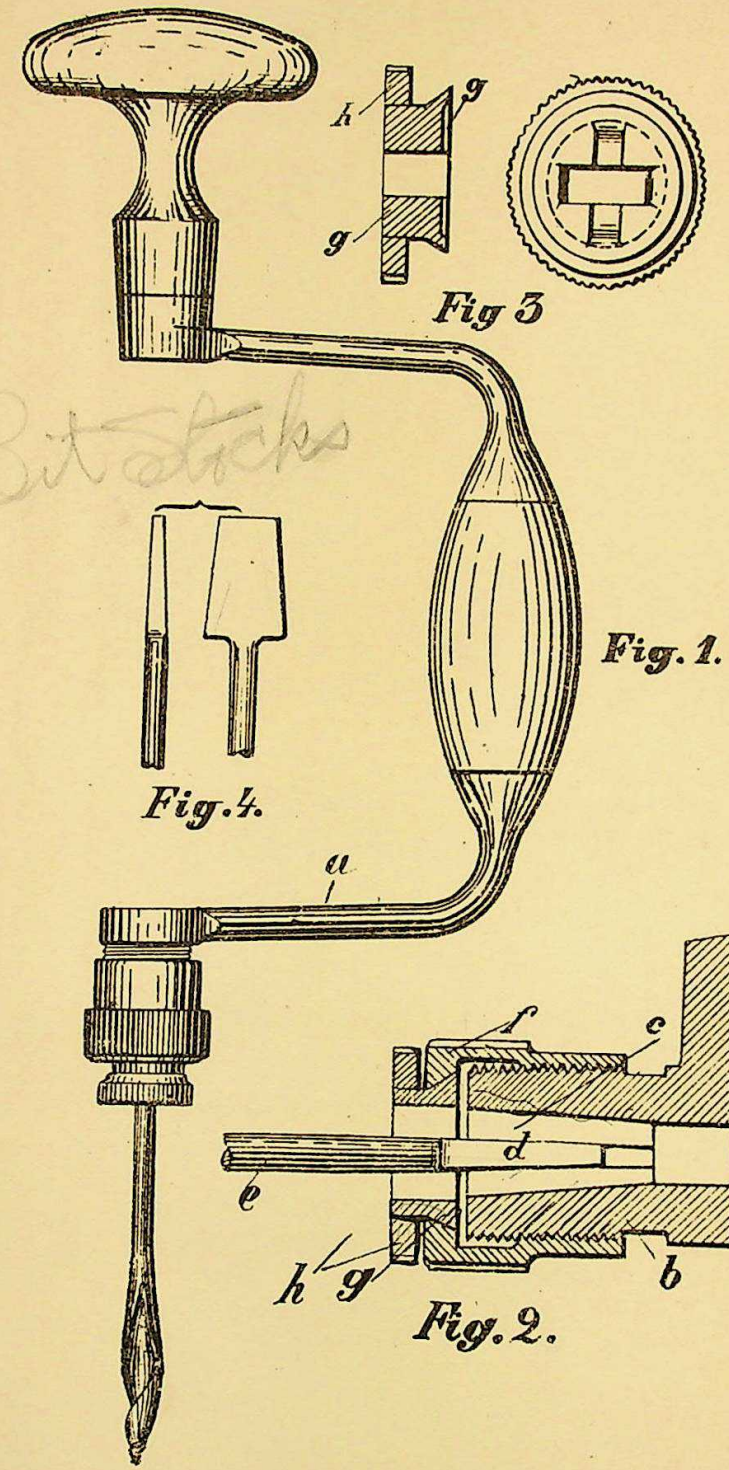

Fig. 1.

Fig. 4.

Fig. 2.

[This Drawing is a reproduction of the Original on a reduced scale.]

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COMPLETE SPECIFICATION.

Improvements in or connected with Braces, Bit-stocks, or the like.

A communication by ALBERT BREHM, of 21, Zwinglistrasse, Berlin, in the Empire of Germany, Locksmith.

I, WILLIAM PHILLIPS THOMPSON, F.C.S. M.I.M.E. of The Agency for Foreign Patent Solicitors, 6 Lord Street, Liverpool, and 6 Bank Street, Manchester, both in the County of Lancaster, and 323 High Holborn, in the County of Middlesex, Civil Engineer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement :—

This invention has for its object a bit holding device for braces, bit stocks or the like which enables a ready and secure clamping of the bit to be effected and prevents the latter from slipping out of the socket when motion of the brace is reversed for withdrawal.

In the accompanying drawings :—

Figure 1 shows the improved bit holding device applied to a hand brace.

Figures 2 and 3 are sections of the same full size, whilst

Figure 4 is a separate view of the method of attaching the bit.

The hand brace *a* of the usual form is provided with a screwed end *b*, having flat tapering sockets *c* for receiving the tang of the bit *d*. Over the screwed end *b* fits a nut *f* in which is movably arranged a plate *g* with a ring *h* attached thereto, the plate *g* being formed with a slot. The ring *h* is firmly connected to the plate *g* to allow of the latter being turned from the outside and it may also be roughened on its periphery for this object. The nut *f*, which may be also partially roughened or made of a hexagonal shape, fits easily on the thread of the end *b*. The bit *d*, the shank *e* of which is, as usual, tapered, may be readily and securely attached to the brace in the following manner :—

Assuming that the plate *g* is turned with its slot coinciding with the socket *c* of the screwed end *b*, the tang of the bit *d* is inserted into the brace socket. Plate *g* is then turned by means of its ring *h* about 90°, so that its slot lies across the brace socket and the nut *f* is then tightened up. By this means the bit is retained with its tang *d* in the socket *c* so that it can neither become loose nor fall out. The bit is removed in a simple way by slackening the nut *f* so far that plate *g* may be lifted by means of its ring *h* away from the end of the brace, whereupon the said plate *g* may be turned until its slot coincides with the brace socket. The screwed end *b* may if desired have cross sockets for larger and smaller bits, but plate *g* must only have a rectangular slot in order to securely clamp the tang *d* of the bit in the end *b*.

Having now particularly described and ascertained the nature of the said invention and in what manner the same is to be performed, as communicated to me by my foreign correspondent, I declare that what I claim is :—

An improved bit-holding device for braces, bit stocks or the like consisting of a slotted plate *g* arranged in front of the brace socket and adapted to be clamped securely thereto by means of a nut *f* screwed on the brace end, whereby, on

turning the plate *g* after the insertion of the bit and then tightening up the nut *f*, a ready and secure clamping of the bit in position is effected, substantially as described and illustrated.

Dated this 26th day of June 1894.

WM. P. THOMPSON & Co.,
Agents.

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